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# EG&G ROCKY FLATS

EG&G ROCKY FLATS, INC  
ROCKY FLATS PLANT, P O BOX 464 GOLDEN, COLORADO 80402-0464 • (303) 966-7000

June 5, 1992

92-RF-5859

Terry A Vaeth  
Manager  
DOE, RFO

Attn F R Lockhart and J Pepe

## DEFINITION OF SCOPE FOR OPERABLE UNIT NOS 5 AND 6 (OU5 AND OU6) TECHNICAL MEMORANDA - JEE-0377-92

Pursuant to your request of March 3, 1992 (1980), the Environmental Management Department (EM) of EG&G Rocky Flats began working to develop Technical Memoranda (TMs) for modification of the OU5 and OU6 RFI/RI Work Plans with respect to surface water and sediment data collection. EM personnel are performing the data analysis phase of the TM preparation, and EM anticipates completion of the TMs in June 1992. This correspondence summarizes what the Department of Energy/Rocky Flats Office (DOE/RFO) can expect to be contained in the TMs.

Phase I RFI/RI Pond Sediment Sample Collection -- Recent sediment coring of the terminal ponds indicated that less than 5 centimeters depth of sediment is in Ponds A-4 and B-5 and about 30 centimeters depth of sediment is in Pond C-2. Therefore, coring and incremental analysis on 5 centimeter intervals will not be practical for Ponds A-4 and B-5. A Draft Pond and Reservoir Bottom-Sediment Sampling Standard Operating Procedure will be included in the TM. This SOP is expected to be approved by the Environmental Protection Agency (EPA) in July 1992.

Phase I RFI/RI Pond Water Sample Collection -- The scope of the water quality sampling plan for the detention ponds can be reduced based on historical data as well as the fact that the ponds are monitored continuously. The data analysis in the TM for the terminal ponds should demonstrate that no water quality sampling will be needed for the terminal ponds. An analysis of available RFP detention pond water quality will be included in the final TMs.

Phase I RFI/RI Surface Water and Sediment Data Collection -- The current Work Plans contain maps showing "existing" sampling stations that were part of the sitewide monitoring program prior to November 1991. The Interagency Agreement (IAG) and the Work Plans do not specify that they will be sampled as part of the RCRA Facility Investigation/Remedial Investigation (RFI/RI) process. The Work Plans state that surface water monitoring data collected concurrent with the RFI will be incorporated into the RFI Report.

## ADMIN RECORD

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REPLY TO RFP CC NO

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EM STATUS

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Water quality samples, aquatic toxicity samples, and streamflow data should be collected synoptically for calculation of constituent loading throughout each watershed and correlation of water quality to toxicity. This will allow for the determination of contaminant source loading from Individual Hazardous Substance Sites (IHSSs) and quantification of toxicity. The toxicity data will most likely be required for natural resource damage claim assessment in subsequent phases of the RFI/RI process for OU5 and OU6, but it is more efficient to collect the toxicity samples concurrent with the water quality samples.

The TMs will include the current "Work Plan for Event-Related Surface Water Monitoring and Sediment Characterization" and describe data quality objectives and data analysis techniques that will benefit the Phase I RFI/RI. Therefore, the current Work Plans would remain unchanged, but the scope of the surface water data collection activities performed concurrent with the RFI will be redefined to include storm event monitoring at gaging stations and computation of constituent loads.

Surface Water/Groundwater Interactions -- DOE/RFO requested that surface water/groundwater interactions be included in the scope of the TMs for OU5 and OU6. This analysis could only be performed for Woman Creek because adequate flow data for Walnut Creek are not yet available. This analysis was intended to aid in the location of surface water sampling locations in Woman Creek and Walnut Creek. However, as mentioned above, the only surface water sampling locations that are specified for Walnut Creek are the detention ponds. Therefore, the information obtained from the analysis performed for Woman Creek can be incorporated in the TM and the final RFI/RI report, but it will not be used to locate sampling stations. Instead, the analysis will aid in the understanding of the dynamics of the Woman Creek and Walnut Creek hydrology.

Please contact Greg Wetherbee at extension 8685 if you have questions regarding these proposals for the OU5 and OU6 TMs. Again, EM anticipates completion of the TMs in June 1992, provided that the scope proposed herein is not changed.

  
J. E. Evered, Director  
Environmental Management  
EG&G Rocky Flats, Inc.

GAW:vbs

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